

# 4

PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Sheng C. Lou, et al.

Serial No.: 09/731,126

Filed: December 6, 2000

For: MONOCLONAL ANTIBODIES TO  
HUMAN IMMUNODEFICIENCY VIRUS AND  
USES THEREOF

Attorney Docket No.: 6755.US.O1

Examiner: Unknown

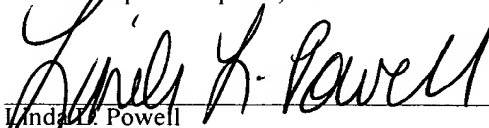
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**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Pursuant to 37 CFR §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed, to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed documents are attached.

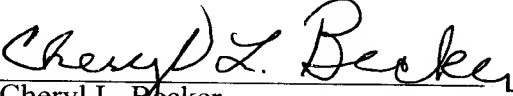
This submission does not represent that a search has been made or that no better art exists, and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The Commissioner is authorized to charge our Deposit Account any additional fees (or credit any overpayments) that may be required under 37 CFR §§ 1.16 and 1.17 in association with this communication for which full payment has not been tendered.

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Respectfully submitted,  
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#4

SHEET 1 of 5

Form PTO - 1449 (Modified)

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(37 CFR 1.98 (b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A1	4,886,742	12-12-89	Kortright, et al.			
	A2	4,888,290	12-19-89	Kortright, et al.			
	A3	5,173,399	12-22-92	Mehta, et al.			
	A4	5,210,181	05-11-93	Butman, et al.			
	A5	5,514,541	05-07-96	Butman, et al.			
	A6	5,731,189	03-24-98	Zolla-Pazner, et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES	NO
	B1	EP 0519866A1	12-23-92	EPO				
	B2	WO 93/21346	10-28-93	WO				

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C1	Allain, et al., <i>The Lancet</i> , <i>Serological Markers in Early Stages of Human Immunodeficiency Virus Infection in Haemophiliacs</i> , ii:1233-1236 (1986)
C2	Barin, et al., <i>Science</i> , <i>Virus Envelope Protein of HTLV-III Represents Major Target Antigen for Antibodies in AIDS Patients</i> , 228:1094-1096 (1985)
C3	Barin, et al., <i>The Lancet</i> , <i>Serological Evidence for Virus Related to Simian T-Lymphotropic Retrovirus III in Residents of West Africa</i> , 2:1387-1389 (1985)
C4	Bowen, et al., <i>Annals of Internal Medicine</i> , <i>Transmission of Human Immunodeficiency Virus (HIV) by Transplantation: Clinical Aspects and Time Course Analysis of Viral Antigenemia and Antibody Production</i> , Ann. Of Int. Med. 108:46-48 (1988)
C5	R.H. Burdon and P.H. van Knippenberg, eds. Vol. 15 Elsevier, Amsterdam
C6	Charneau, et al., <i>Virology</i> , <i>Isolation and Envelope Sequence of a Highly Divergent HIV-1 Isolate: Definition of a New HIV-1 Group</i> , 205:247-253 (1994)
C7	Clavel, et al., <i>Science</i> , <i>Isolation of a New Human Retrovirus from West Africa Patients with AIDS</i> , 233:343-346 (1986)
C8	Clavel, et al., <i>Nature</i> , <i>Molecular Cloning and Polymorphism of the Human Immune Deficiency Virus Type 2</i> , 324:691-695 (1986)

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## Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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C9	Coffin, Science, <i>HIV Population Dynamics in Vivo: Implications for Genetic Variation, Pathogenesis and Therapy</i> , 267:483-489 (1995)
C10	Courouce, et al., <i>La Gazette de la Transfusion</i> N°155-Mars-Avril (1999)
C11	Dawson, et al., <i>The Journal of Infectious Diseases</i> , <i>Reliable Detection of Individuals Seropositive for the Human Immunodeficiency Virus (HIV) by Competitive Immunoassays Using Escherichia Coli-Expressed HIV Structural Proteins</i> , 157:149-155 (1988)
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C23	Haesevelde, et al., <i>Journal of Virology</i> , <i>Genomic Cloning and Complete Sequence Analysis of a Highly Divergent African Human Immunodeficiency Virus Isolate</i> , 68:1586-1596 (1994)

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C24	Hunt, et al., AIDS Research and Human Retroviruses, <i>Envelope Sequence Variability and Serologic Characterization of HIV Type I Group O Isolates from Equatorial Guinea</i> , 13:995-1005 (1997)
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C41	Saag, et al., <i>Nature Medicine</i> , <i>HIV Viral Load Markers in Clinical Practice</i> , 2:625-629 (1996)
C42	Sarngadharan, et al., <i>Science</i> , <i>Antibodies Reactive with Human T-Lymphotropic Retroviruses (HTLV-III) in the Serum of Patients with AIDS</i> , 224:506-508 (1984)
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C51	van Binsbergen, et al., <i>Journal of Virological Methods</i> , <i>Improved Performance of Seroconversion with a 4<sup>th</sup> Generation HIV Antigen/Antibody Assay</i> , 82:77-84 (1999)

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